Amendments to the Claims: This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1.- 12. Cancelled

13. (New) An actuating unit for an electromechanically actuated disc brake for use with automotive vehicles, which is disposed on a brake caliper wherein two friction linings are disposed in a manner limitedly displaceable, cooperating with respectively one side face of a brake disc, with one of the said friction linings by means of an actuating element, through the actuating unit, being movable into engagement with the brake disc directly, and the other of said friction linings being movable into engagement with the brake disc through the action of a reaction force applied by the brake caliper, wherein the actuating unit comprises an electric motor and a reduction gear operatively disposed between the electric motor and the actuating element, which (reduction gear) is formed of a threaded drive accommodated by a guide piece axially supported on the brake caliper or a gearbox housing connected to the brake caliper, wherein provided between the guide piece and the brake caliper or the gearbox housing connected to the brake caliper is a sensor device for sensing the reaction force resulting from the actuating force applied by the actuating unit.

14. (New) An actuating unit according to claim 13, wherein the sensor device, on the one hand, is connected, in a form-locking manner, to the gearbox housing and, on the other hand, to the guide piece such that the sensor device is axially locked in the gearbox housing.

15. (New) An actuating unit according to claim 13, wherein the sensor device comprises means for radially guiding the guide piece.

16. (New) An actuating unit according to claim 13, wherein the sensor device comprises an annular holder on which are circumferentially distributed three pressure-measuring elements.

17. (New) An actuating unit according to claim 16, wherein the annular holder is made of plastic material.

18. (New) An actuating unit according to claims 16, wherein the pressure-measuring elements are of a square-type configuration and are provided with strain gauge faces disposed in a plane extending in a direction normal to the admission of the reaction force.

19. (New) An actuating unit according to claim 17, wherein the annular holder comprises contacting means for contacting the strain gauge faces.

20. (New) An actuating unit according to claim 18, wherein the contacting means are formed of a punched grid injection-molded from plastic material, enabling electric signals to be communicated and being connected by thin-wire bonds to the strain gauge faces.

21. (New) An actuating unit according to claim 16, wherein the annular holder is provided with an electric plug for connection of the strain gauge faces.

22. (New) An actuating unit according to claim 21, wherein the electric plug comprises an electronic analyzer.

23. (New) An actuating unit according to claim 18, wherein the strain gauge faces are bridge-circuited.

24. (New) An actuating unit for an electromechanically actuated disc brake for use with automotive vehicles, which is disposed on a brake caliper accommodating two friction linings in a manner limitedly displaceable, cooperating with respectively one side face of a brake disc, with one of the said friction linings, by means of an actuating element, through the actuating unit, being brought into engagement with the brake disc directly, and the other of said friction linings being brought into engagement with the brake disc through the action of a reaction force applied by the brake caliper, wherein the actuating unit comprises an electric motor and a reduction gear operatively disposed between the electric motor and the actuating element, which (reduction gear) comprises a threaded drive accommodated by a guide piece axially supported on the brake caliper or a gearbox housing connected to the brake caliper, on which guide piece is supported a spindle of the threaded drive, with an axial bearing being disposed therebetween, wherein a bearing ring of the axial bearing is designed (formed) as a component part of a sensor device, which is provided for sensing the reaction force resulting from the actuating force applied by the actuating unit.